



# Design Professional: Low Carbon Concrete Compliance Form

## Embodied Carbon (EC) Pathway

Project Name \_\_\_\_\_

Project Address \_\_\_\_\_

THE DESIGN PROFESSIONAL OR RESPONSIBLE APPLICANT ON THE DESIGN TEAM SHALL COMPLETE AND SUBMIT TO THE BUILDING DEPARTMENT FOR PLAN CHECK TO REVIEW.					STEPS
Date:					1) Provide Date, Company Information, and Signature
Company Name:					
Print Name:					
Signature:					
Application (e.g., foundation, slab, sidewalks, pool, etc.)	If Applicable, Pre-Qualified Mix Design (County Reference No.)	Specified Strength (psi)	Allowable EC See <a href="#">Table 19.07.050 (pg.2 below)</a> as per MBC, Title 19  (kg CO <sub>2</sub> e/m <sup>3</sup> ) per EPD	If Applicable, Allowable EC, High Early Strength-add 30%  (kg CO <sub>2</sub> e/m <sup>3</sup> ) per EPD	2) Provide an environmental product declaration for all unique concrete mix designs used on the project.  3) If Ready-Mix Design Number has been pre-qualified with the County, provide County issued pre-qualified reference number. See pre-qualified mixes at <a href="https://marincounty.org/lowcarbonconcretecodes">https://marincounty.org/lowcarbonconcretecodes</a>  4) Place or print this compliance form within structural plans. If a licensed professional is present, that person MUST stamp the mix design to ensure it complies, otherwise a signature of the responsible applicant will suffice.
<i>ex. Foundation</i>	<i>ex. 00001</i>	<i>ex. 3000</i>	<i>ex. 289</i>	<i>ex. 378</i>	



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#### Marin Building Code, Title 19, Table 19.07.050. Cement and Embodied Carbon Limit Pathways (Look at EC Limits)

Minimum specified compressive strength $f'_c$ , psi <sup>(1)</sup>	Cement limits for use with any compliance method 19.07.050.2 through 19.07.050.5	Embodied Carbon (EC) limits for use with any compliance method 19.07.050.2 through 19.07.050.5
	Maximum ordinary Portland cement content (lbs/yd <sup>3</sup> ) <sup>(2)</sup>	Maximum embodied carbon (kg CO <sub>2e</sub> /m <sup>3</sup> , per EPD)
up to 2500	362	260
3000	410	289
4000	456	313
5000	503	338
6000	531	356
7000	594	394
7001 and higher	657	433
up to 3000 light weight	512	578
4000 light weight	571	626
5000 light weight	629	675

#### Notes

- For concrete strengths between the stated values, use linear interpolation to determine cement and/or embodied carbon limits.
- Portland cement of any type per ASTM C150 or ASTM C595

v5 Last Updated 10/03/2023

Comments and Notes: \_\_\_\_\_

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